

STN Columbus

***** Welcome to STN International *****

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
 NEWS 2 "Ask CAS" for self-help around the clock
 NEWS 3 SEP 09 CA/CAPLUS records now contain indexing from 1907 to the present
 NEWS 4 Jul 15 Data from 1960-1976 added to RDISCLOSURE
 NEWS 5 Jul 21 Identification of STN records implemented
 NEWS 6 Jul 21 Polymer class term count added to REGISTRY
 NEWS 7 Jul 22 INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
 NEWS 8 AUG 05 New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
 NEWS 9 AUG 13 Field Availability (/FA) field enhanced in BEILSTEIN
 NEWS 10 AUG 15 PATDPAFULL: one FREE connect hour, per account, in September 2003
 NEWS 11 AUG 15 PCTGEN: one FREE connect hour, per account, in September 2003
 NEWS 12 AUG 15 RDISCLOSURE: one FREE connect hour, per account, in September 2003
 NEWS 13 AUG 15 TEMA: one FREE connect hour, per account, in September 2003
 NEWS 14 AUG 18 Data available for download as a PDF in RDISCLOSURE
 NEWS 15 AUG 18 Simultaneous left and right truncation added to PASCAL
 NEWS 16 AUG 18 FROSTI and KOSMET enhanced with Simultaneous Left and Right Truncation
 NEWS 17 AUG 18 Simultaneous left and right truncation added to ANABSTR
 NEWS 18 SEP 22 DIPPR file reloaded
 NEWS 19 SEP 25 INPADOC: Legal Status data to be reloaded
 NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
 NEWS HOURS STN Operating Hours Plus Help Desk Availability
 NEWS INTER General Internet Information
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 NEWS PHONE Direct Dial and Telecommunication Network Access to STN
 NEWS WWW CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 18:43:16 ON 26 SEP 2003

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 18:43:31 ON 26 SEP 2003

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provided by InfoChem.

STRUCTURE FILE UPDATES: 25 SEP 2003 HIGHEST RN 593231-54-0
DICTIONARY FILE UPDATES: 25 SEP 2003 HIGHEST RN 593231-54-0

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

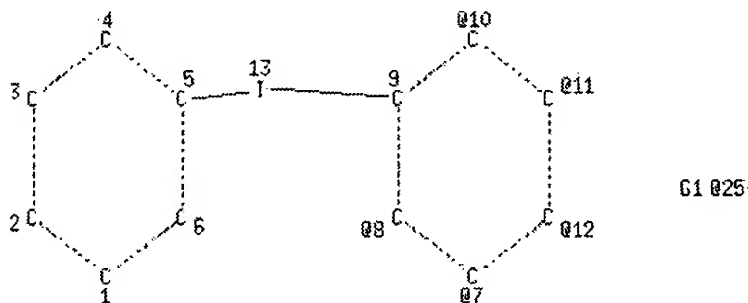
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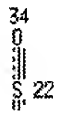
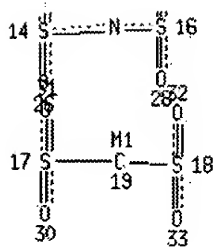
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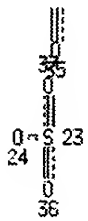


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Page 2-A



Page 3-A

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NUMBER OF NODES IS 37

STEREO ATTRIBUTES: NONE

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FILE COVERS 1907 - 26 Sep 2003 VOL 139 ISS 14
FILE LAST UPDATED: 25 Sep 2003 (20030925/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L4 5 L3

=> d fbib ab hitstr 1-5

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

Full Text

AN 2002:107841 CAPLUS

DN 136:175464

TI Synthesis of zwitterionic iodonium compounds for resist compositions transmitting light in low UV portion of spectrum

IN Desmarteau, Darryl; Montanari, Vitorio; Thomas, Brian H.

PA USA

SO U.S. Pat. Appl. Publ., 19 pp.
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002015826	A1	20020207	US 2001-832174	20010410
				US 2000-196515PP	20000411

OS MARPAT 136:175464

AB Disclosed are the methods of synthetic prepn. of zwitterionic iodonium compds. for resist compns. transmitting light in low UV portion of spectrum. Photoresist compns., or photoacids, are used in etching circuit pathways on the surface of microelectronic components. Iodonium compds. generate a strong acid under short wavelength irradiation, which is capable of etching the polymeric surface coating of a silicon wafer. The strong acid is the conjugate acid of the counter anion. Larger counterions generate acids that diffuse to a lesser extent in the polymer resist matrix, producing better image resolution. Given the particular anion, the solubility of its diary iodonium salts will depend upon which aromatic rings are used on the iodonium molecule. A zwitterionic structure of the iodonium molecule, having both positive and negative charges on the same molecule species, can be used as photoacid compound in the photoresist step of microchip manufacture.

IT 396733-88-3P 396733-91-8P 396733-94-1P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

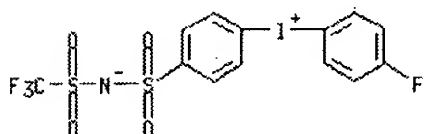
(iodonium zwitterion; synthesis of zwitterionic iodonium compounds for resist compounds transmitting light in low UV portion of spectrum)

RN 396733-88-3 CAPLUS

applications

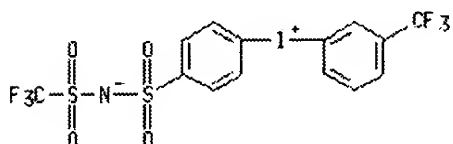
STN Columbus

CN Iodonium, (4-fluorophenyl)[4-[[[(trifluoromethyl)sulfonyl]amino]sulfonyl]phenyl]-, inner salt (9CI) (CA INDEX NAME)



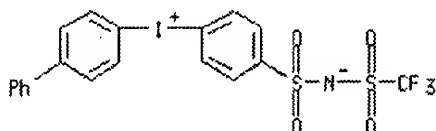
RN 396733-91-8 CAPLUS

CN Iodonium, [3-(trifluoromethyl)phenyl][4-[[[(trifluoromethyl)sulfonyl]amino]sulfonyl]phenyl]-, inner salt (9CI) (CA INDEX NAME)



RN 396733-94-1 CAPLUS

CN Iodonium, [1,1'-biphenyl]-4-yl[4-[[[(trifluoromethyl)sulfonyl]amino]sulfonyl]phenyl]-, inner salt (9CI) (CA INDEX NAME)

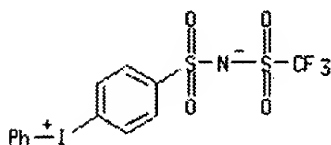


IT 396733-77-0DP, crystd. with DMSO

RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(synthesis of zwitterionic iodonium compds. for resist compns. transmitting light in low UV portion of spectrum)

RN 396733-77-0 CAPLUS

CN Iodonium, phenyl[4-[[[(trifluoromethyl)sulfonyl]amino]sulfonyl]phenyl]-, inner salt (9CI) (CA INDEX NAME)



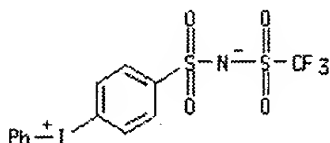
IT 396733-77-0

RL: TEM (Technical or engineered material use); USES (Uses)
(synthesis of zwitterionic iodonium compds. for resist compns. transmitting light in low UV portion of spectrum)

RN 396733-77-0 CAPLUS

STN Columbus

CN Iodonium, phenyl[4-[[[(trifluoromethyl)sulfonyl]amino]sulfonyl]phenyl]-,
inner salt (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

Full Text

AN 1998:464361 CAPLUS

DN 129:109417

TI Salts of malononitrile-based anions for use as ionic conductors

IN Armand, Michel; Choquette, Yves; Gauthier, Michel; Michot, Christophe

PA Centre National de la Recherche Scientifique (CNRS), Fr.; Hydro-Quebec

SO Eur. Pat. Appl., 49 pp.

CODEN: EPXXDW

DT Patent

LA French

FAN.CNT 4

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PATENT FAMILY INFORMATION:

FAN 1998:464360

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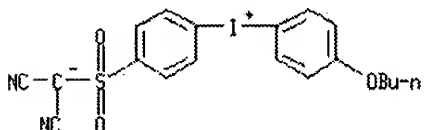
AB The title compds., of specified structure and also useful as polymn. catalysts, colorants, etc., are prepd. Stirring 10 mmol each stearoyl chloride and malononitrile K salt in THF at room temp. for 24 h, filtering, and stirring the filtrate with 500 mg Li₂CO₃ for 24 h gave >97% C₁₇H₃₅COC(CN)₂- Li⁺. Use of the products in the above applications is exemplified.

IT 210043-63-3P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(salts of malononitrile-based anions for use as ionic conductors)

RN 210043-63-3 CAPLUS

CN Iodonium, (4-butoxyphenyl) [4-[(dicyanomethyl)sulfonyl]phenyl]-, inner salt (9CI) (CA INDEX NAME)



RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

Full Text

AN 1998:464360 CAPLUS

DN 129:122975

TI Salts of perfluorinated sulfonamides or sulfinamides and their use as ionic conductors and as catalysts

IN Armand, Michel; Choquette, Yves; Gauthier, Michel; Michot, Christophe

PA Centre National de la Recherche Scientifique (CNRS), Fr.; Hydro-Quebec

SO Eur. Pat. Appl., 65 pp.

CODEN: EPXXDW

DT Patent

LA French

FAN.CNT 4

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US 2003066988	A1	20030410	US 1998-125797 A119981203 US 2001-858439 A120010516 US 2002-253970 20020924 CA 1996-2194127A 19961230 CA 1997-2199231A 19970305 WO 1997-CA1010 W 19971230 US 1998-101810 A319981119 US 2000-638793 A120000809

OS MARPAT 129:122975

AB The salts comprise a cation and R1SOxN-Z in amts. to balance the pos. and neg. charges, where R1 is halo, perhaloalkyl (optionally interrupted by O, S, or NH) or -alkaryl, R2CF2, R2CF2CF2, R2CF2CF(CF3), or CF3CFR2; R2 is an org. radical which is not perhalogenated; Z is an electron-withdrawing group, which may be the residue of a polymer or may be a polyvalent group attached to other N-SOxR1 moieties; and x = 1 or 2. Thus, a mixt. of 40 mmol acrylonitrile and 60 mmol 4-CH2:CHC6H4SO2N-SO2CF3 Li+ was copolymd. in 82% yield by use of 1,1'-azobis(cyclohexanecarbonitrile) in THF, and the copolymer was used at 20% concn. as a binder in both the carbon anode and the carbon-LiNiO2 cathode of a battery contg. a gelled electrolyte.

IT 210227-59-1P

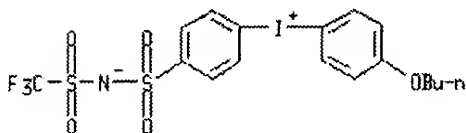
RL: SPN (Synthetic preparation); PREP (Preparation)

STN Columbus

(salts of perfluorinated sulfonamides or sulfinamides for use as ionic conductors and as catalysts)

RN 210227-59-1 CAPLUS

CN Iodonium, (4-butoxyphenyl) [4-[[[(trifluoromethyl)sulfonyl]amino]sulfonyl]phenyl]-, inner salt (9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

Full Text

AN 1995:804536 CAPLUS

DN 123:200786

TI Photo-curable resin compositions

IN Hasegawa, Junko; Ebisawa, Makoto

PA Japan Carlit Co Ltd, Japan

SO Jpn. Kokai Tokkyo Koho, 21 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07179511	A2	19950718	JP 1993-345712	19931222
				JP 1993-345712	19931222

OS MARPAT 123:200786

AB Resin compns. useful as coating, adhesive, and sealant are photocurable at room temp. and are characterized by contg. ≥2 di-Ph iodonium salts as photo polymn. initiator, where Ph groups can be substituted by various groups, and cationically polymerizable resins including ≥1 epoxy resin. A compn. contg. 100 parts bisphenol A-based epoxy resin and 1 part of a mixt. of diphenyliodonium hexafluorophosphate, diphenyliodonium hexafluoroantimonate, diphenyliodonium hexafluoroarsenate, 4,4'-dimethyldiphenyliodonium hexafluoroantimonate, and 4,4'-dibutyldiphenyliodonium hexafluoroantimonate was cured at room temp. in 1.2 s upon UV irradiation.

IT 167998-20-1

RL: CAT (Catalyst use); POF (Polymer in formulation); USES (Uses) (photo-curable resin compns.)

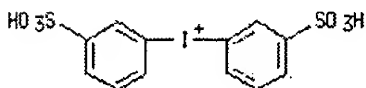
RN 167998-20-1 CAPLUS

CN Iodonium, bis(3-sulfophenyl)-, perchlorate (9CI) (CA INDEX NAME)

CM 1

CRN 167998-19-8

CMF C12 H10 I O6 S2

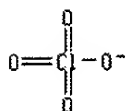


STN Columbus

CM 2

CRN 14797-73-0

CMF Cl O4



L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2003 ACS on STN

Full Text

AN 1974:505625 CAPLUS

DN 81:105625

TI Preparation and properties of arylphosphonic and diarylphosphinic acids containing polyvalent iodine

AU Freedman, Leon D.; DeMott, Roy P.

CS Dep. Chem., North Carolina State Univ., Raleigh, NC, USA

SO Phosphorus and the Related Group V Elements (1974), 3(5-6), 277-81

CODEN: PHUSBV; ISSN: 0369-9722

DT Journal

LA English

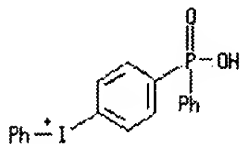
AB The o- and p-isomers of iodophenylphosphonic and (iodophenyl)phenylphosphinic acids were oxidized to the corresponding iodoso compds. The o-iodoso compds. probably have structure (I, R = OH, Ph). The p-iodoso compds. probably have the zwitterionic structures p-HOI+C6H4P(O)(O-)Ph (II) and p-HOI+C6H4PO3H- was converted to the iodonium bromide p-PhI+C6H4P(O)(OH)Ph Br- and its betaine p-PhI+C6H4P(O)(O-)(O-)Ph. Attempts to convert I (R = Ph) to a cyclic iodonium compd. of type III (X = halo) were unsuccessful.

IT 54185-76-1P 54185-77-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

RN 54185-76-1 CAPLUS

CN Iodonium, [4-(hydroxyphenylphosphinyl)phenyl]phenyl-, bromide (9CI) (CA INDEX NAME)

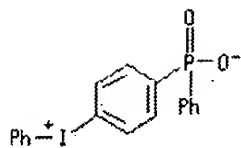


Br⁻

RN 54185-77-2 CAPLUS

CN Iodonium, [4-(hydroxyphenylphosphinyl)phenyl]phenyl-, inner salt (9CI)
(CA INDEX NAME)

STN Columbus



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